Anti-Corrosion Nanotechnology Solutions - Logistics (ACNS-L)

DESCRIPTION

- ❑ A structured approach to validate the application of nano-engineered coatings/materials to mitigate corrosion on Army materiel
- ❑ Testing of a potential nanotechnology solution for the Observation Helicopter (OH-58D) Kiowa Warrior Torquemeter Support; common 7075 Aluminum Alloy with cross-platform / Joint applications
- ❑ Facilitate planning for a Product Manager Kiowa depot level repair program to apply a validated nano-engineered solution

• **Stakeholders:** G-44(M), PEO Aviation, PM Kiowa, AMCOM Aviation Engineering Directorate and Corrosion Office, Aviation & Missile Research, Development and Engineering Center, Corpus Christi Army Depot, NAVAIR, Bell Helicopter

MILESTONES

✓ **Phase-3 Kick-off**	**Sep 10**
✓ **Nanotechnology Solution Test & Evaluation (NSTE) Plan**	**Jan 11**
❑ **Testing & Analysis**	**Aug 11**
❑ **Nanotechnology Implementation Plan (NIP)**	**Sep 11**
❑ **Nanotechnology Corrosion Application Transfer (NCAT) Report**	**Sep 11**

STATUS

❑ **Efforts to Date**

- ➢ Developed Army Nanotechnology for Corrosion Solutions R&D and Corrosion Mitigation Foundational Assessment Reports
- ➢ Hosted Nanotechnology Day at 2009 Army Corrosion Summit
- ➢ Stakeholder Collaboration, Area of Focus and Nano-solutions
- ➢ Technical, Business Case and Risk Analysis

❑ **Current Efforts:**

- ➢ Refine Testing Requirements Based on MILSPEC Requirements
- ➢ Update NSTE Plan to Address Unique Nanotechnology Challenges
- ➢ Prepare Nano-coated and Control Samples (coupons) for Testing